



## SARAH K. FLOCK, NCARB, BECxP, CxA+BE

Principal



### +CONTACT

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Sarah Flock has 16 years of architectural experience in water/moisture intrusion investigations, repair design, and field testing of distressed structures, nonperforming buildings, and material systems. At RRJ, she has specialized in building enclosure assessment and in the resolution of moisture intrusion, including condensation formation. She has performed hygrothermal modeling to analyze a wide range of projects utilizing her knowledge and expertise in THERM, WUFI, and other types of computer analyses. She has evaluated and tested building materials and systems, including masonry, windows, curtain walls, metal panels, stucco, wood and vinyl cladding systems, and exterior insulation and finish systems (EIFS).

Her experience has involved architectural peer review of building enclosures and assemblies to ensure the designs meet codes and standards for energy efficiency and environmental performance. With her extensive building enclosure knowledge, she has provided litigation support and served as an expert witness on related failures.

Previously, she gained experience working at both an engineering firm and residential design practice in the areas of site investigations, code analysis, construction documents, and interactive graphics. She served as a teaching assistant for a construction and building technology course while working on her Master's degree at the University of Illinois at Urbana-Champaign.

### ■ EDUCATION

Master of Architecture: Management, 2001  
University of Illinois at Urbana-Champaign

Bachelor of Science in Architectural Studies, 1999  
University of Illinois at Urbana-Champaign

### ■ REGISTRATIONS | CERTIFICATIONS

Licensed Architect in Illinois, Iowa, South Carolina, and Wisconsin

National Council of Architectural Registration Boards (NCARB) Certificate Holder

Construction Documents Technologist (CDT)

Building Enclosure Commissioning Process Provider (BECxP)

Commissioning Authority + Building Enclosure (CxA+BE)

Certified Third-Party EIFS Inspector

Certified Simulator for U-Factor, Solar Heat Gain Coefficient, Visible Transmittance, and Condensation Resistance

Health Care Construction Certificate (HCC)

Completed courses in Advanced WUFI and ASHRAE training regarding energy compliance standards

### ■ PROFESSIONAL AFFILIATIONS

American Institute of Architects (AIA), Member  
AIA Chicago and Illinois Chapters, Member

Building Enclosures Council-Chicago, Past Chair

ASTM International, Member

Committee E06.55.09 Standard Practice for Building Enclosure Commissioning

Committee E06.55.10 Building Commissioning Certifications and Training

Committee E06.41 Moisture Modeling

Air Barrier Association of America (ABAA), Board Member, Co-Chair, Technical Research Committee

American Society of Healthcare Engineering (ASHE)

Construction Specifications Institute (CSI)

Exterior Design Institute (EDI)

Apartment Building Owners and Managers Association (ABOMA)

### ■ AWARDS

Air Barrier Association of America, Committee Chair Award, May 2018

RCI, Inc., Richard M. Horowitz Award Winner  
Best Article in *Interface*, 2013

Precast/Prestressed Concrete Institute (PCI)  
Architectural Design Award Winner, 2002



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### ■ PUBLICATIONS

- "Put Penetrations to the Test: The Effect of Cladding Attachments on Air and Water Barriers," *The Construction Specifier*, S.K. Flock and A. Dunlap, July 2018
- "Understanding Performance at Air, Water Barrier Penetrations," *Durability + Design News*, S.K. Flock and A. Dunlap, April 4, 2018
- "Understanding Heat, Air, and Moisture Control: The Gaps Between Design and Performance," *The Construction Specifier*, S.K. Flock and C.M. Ceja, May 2016
- "Inhibiting Condensation, Understanding Communication Between Spaces, Environment, and People," *Medical Construction & Design*, S.K. Flock and A.L. Baird, January/February 2016
- "Roof Design and Preconstruction Considerations for Heat, Air, and Vapor Control," *Interface, The Journal of the Roof Consultants Institute*, S.K. Flock and G.D. Hall, September 2012
- "Interior Metal Components and the Thermal Performance of Window Frames," *Journal of Testing and Evaluation*, Vol. 39, No. 3, S.K. Flock and G.D. Hall, ASTM International, West Conshohocken, PA, May 2011
- "The Complexities of Specifying and Detailing Air Barrier Systems," *The Construction Specifier*, S.K. Flock and G.D. Hall, April 2011
- "In Situ Moisture Testing of Building Products as a Predictor of Actual Conditions," Proceedings of the BEST1 Conference, G.D. Hall and S.K. Flock, June 10, 2008
- "Installation Details and Condensation Performance", RRJ *Insight* Issue No. 23, R.J. Kudder, D.K. Johnson, and S.K. Flock, August 2006
- "Importance of Condensation Control in Cold Climate Wall Assemblies", RRJ *Insight* Issue No. 23, R.J. Kudder, D.K. Johnson, and S.K. Flock, August 2006
- "Effect of Installation Details on the Condensation Performance of Window Frames," Committee on Performance and Durability of Window-Walls Interface, ASTM STP 1484, R.J. Kudder, S.K. Babich (Flock) and D.K. Johnson, ASTM International, West Conshohocken, PA, 2004

### ■ PRESENTATIONS

- "Field Quality Assurance Testing for Air Barriers," a joint event of the Air Barrier Association of America, International Masonry Institute, and Building Enclosure Council-Chicago, Addison, IL, P.E. Reicher and S.K. Flock, October 18, 2018
- "Window Condensation Problems: Why Now?" Chicago Area Chapter of RCI, Inc. Annual Meeting & Program, Oak Brook, IL S.K. Flock and R.J. Kudder, January 17, 2018
- "Top 15 Hot Button Roofing Issues," Chicago Area Chapter of RCI, Inc. Fall Meeting & Program, Glen Ellyn, IL, C.M. Ceja, P.E. Reicher, S.K. Flock, and A.L. Baird, November 10, 2017
- "Top 15 Hot Button Roofing Issues and Why Every General Contractor Should Know About Them," American Contractors Insurance Group (ACIG), Risk Management Workshop, Barrington, IL, C.M. Ceja, P.E. Reicher, S.K. Flock, and A.L. Baird, October 12, 2017
- "Building and Envelope Commissioning Challenges and Solutions for Construction Projects," Construction Owners Association of America, Illinois Chapter, Spring Workshop, Chicago, IL, Panelist, April 12, 2017



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### ■ PRESENTATIONS

"Measuring Water Resistance, Test Methods and Conditions of Acceptance," Buildings XII Conference, Clearwater Beach, FL, December 4, 2016

"Roof / Wall Considerations for Heat, Air, and Moisture Control," Chicago Area Chapter of RCI, Inc. Annual Meeting & Program, Oak Brook, IL, S.K. Flock and C.M. Ceja, January 20, 2016

"Thermal Bridging and Moisture Control in Building Enclosures," Association of Licensed Architects, Glenview, IL, K.M. Lies, S.K. Flock, and R.J. Kudder, March 31, 2015

"Roof Design and Preconstruction Considerations for Heat, Air, and Vapor Control," Building Enclosure Council of Chicago," Chicago, IL, S.K. Flock and G.D. Hall, January 2013

"The Construction Expert's Toolbox," Society of Illinois Construction Attorneys, Ethics for Legal Counsel and Neutrals and the ADR Process, Chicago, IL, K.R. Hoigard and S.K. Flock, April 16, 2013

"Interior Metal Components and the Thermal Performance of Window Frames," ASTM Symposium, San Antonio, TX, S.K. Flock and G.D. Hall, October 2010

"A Review of Moisture Migration and Heat Transfer in Buildings," Architecture Conference and Product Show, Oakbrook Terrace, IL, G.D. Hall and S.K. Flock, 2009

"Design Considerations for the Prevention of Condensation Formation," The Construction Specifications Institute, Chicago Chapter Roundtable, Chicago, IL, G.D. Hall and S.K. Flock, September 10, 2008

"In Situ Moisture Testing of Building Products as a Predictor of Actual Conditions," BEST1 Conference, Minneapolis, MN, G.D. Hall and S.K. Flock, June 10, 2008

"What is WUFI?" CSI Chicago Chapter Roundtable Discussion, Chicago, IL, G.D. Hall and S.K. Flock, April 12, 2006

"Effects of Installation Details on the Condensation Performance of Window Frames," Committee on Performance and Durability of Window-Walls Interface, ASTM Symposium, Salt Lake City, UT, April 18, 2004